

**CALIFORNIA COASTAL COMMISSION**

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# **CALIFORNIA COASTAL COMMISSION LCP PLANNING GRANT APPLICATION FORM NOVEMBER 21, 2013**

For Fiscal Year 2013-2014, Governor Brown and the California Legislature approved an augmentation of \$1 million to the California Coastal Commission's budget to support local governments responsible for planning under the California Coastal Act (Coastal Act) to develop or update Local Coastal Programs (LCPs). A full description of the grant program is available <http://www.coastal.ca.gov/lcp/lcpgrantprogram.html>.

Coastal Commission staff is available to work with local governments and to assist you during the application process. Please note the entire grant application will be public record upon submittal. Click in the shaded text fields to enter text, numbers and dates. The fields will expand to accommodate the data. Press the tab key to move between fields.

## **APPLICANT INFORMATION**

Applicant name (organization): County of Santa Barbara

## **PROJECT INFORMATION**

Project title: County of Santa Barbara Coastal Hazard Adaptation Plan and LCP Amendment

LCP/ LCP Segment: N/A

Project location: City / Geographic area: Carpinteria, Santa Barbara, Goleta, and Gaviota

County: Santa Barbara

Project timeline: Start date: 4/1/2014

End date: 4/30/2016

## MAPS AND PHOTOS

Applications must include one map showing the planning area for the project. Additional photos or maps may be included as attachments if needed to illustrate the proposed project. Please note: any photos and maps you submit are subject to the unqualified and unconditional right of the State of California to use, reproduce, publish, or display, free of charge. Please indicate if crediting is requested for the photos and/or maps.

## APPLICATION MATERIALS

**1. A PROJECT DESCRIPTION.** Provide a clear description of the proposed project organized under subheadings to describe how the project will address the priorities and criteria. This section should be no more than 5- 7 pages in 12 point font, single-spaced, and should include the following:

- a. The **goals and objectives** of your project: Include a description of how you will accomplish each objective, and how your objectives will accomplish your goals.
- b. **Project details:** Include a specific description of how the planning project will be carried out, including specific plans for community outreach and **how the project addresses the adopted priorities and criteria:**

- i. **Public Benefit/Significance**

Please describe the extent to which the proposed LCP planning project will: (1) address issues of statewide significance and (2) maximize public benefits of the coast. These benefits can include: preserving and enhancing coastal habitat, protecting, providing and enhancing public access, protecting priority land uses such as agriculture, coastal dependent development or recreation, Smart Growth and sustainable development initiatives, protecting and providing lower cost visitor and recreational opportunities, and addressing climate change and sea-level rise. Provisions for citizen participation must be a part of the work program.

- ii. **Relative Need for LCP Update/Extent of Update**

Describe the need for the proposal. For example, when was the LCP last updated in whole or in part? Is there an urgency related to the specific planning issues to be addressed? What is the scope of the effort? Please identify the specific elements of the LCP that you are targeting to be updated. Is it targeted to a particular geographic or policy area or to the entire jurisdiction? Does the LCP need to be reformatted or reorganized to improve the clarity and utility of the document and how it relates to other planning documents? Describe how the proposed planning project will be effective in conserving and protecting coastal resources, and how the

proposed project builds upon or complements existing efforts that may be underway or completed for your jurisdiction.

**iii. Addressing the Effects of Climate Change**

Please describe how the proposed project addresses the effects of climate change, including sea-level rise and other coastal hazards. How will it address shoreline protection, planned retreat and redevelopment of existing shoreline and blufftop development? How will it address other issue areas affected by climate change, such as changes in habitat, fire hazards, and transportation and land use policies to facilitate reductions in greenhouse gas emissions and vehicle miles travelled?

**iv. Likelihood of Success/Effectiveness**

Please describe the planning process, steps or mechanisms for coordination with the Coastal Commission staff and the public, and how this grant would advance that process. Please describe the factors that will contribute to the success and effectiveness of your project. Consider the following questions in your response:

- What steps or measures are proposed to help ensure that this effort will be successfully completed and implemented? If your jurisdiction is not yet certified, please explain the factors that make the success of this planning effort more likely. Similarly, if your jurisdiction previously received LCP grant funds, explain the factors that make the success of this planning effort more likely.
- What is the level of support for the project? Please describe or include information that shows support for the project such as resolutions of intent and endorsement for the proposed work, matching funds or other complementary efforts.
- Is LCP or related planning work already underway? How will this grant support and further that effort?

**v. Workload and Permit Streamlining**

Describe how this project may contribute to a more efficient and streamlined permitting and post-certification process.

**vi. Project Integration/Leverage/Matching Funds**

Please describe how this grant application will contribute to efficient use of informational resources, and any existing resources. What other grant funds have been committed or applied for? Are any matching funds or significant in-kind resources available? What other planning work (such as through the Ocean Protection Council, Coastal Conservancy or the Strategic Growth Council) is being undertaken that could help further the LCP effort? If other resources are limited or unavailable, describe the hardship circumstances that may warrant waiver of these considerations.

- 2. A WORK PROGRAM AND SCHEDULE.** Provide a work program and schedule for implementation of the project, including anticipated benchmarks for LCP and or LCP amendment development and review for the project, using the template provided below. Bear in mind that funds will not be available until early spring 2014 and some work tasks must be scheduled to begin on or before April 30, 2014. Grantees will have two years to complete tasks, and work must be completed on or before April 30, 2016.

### SCHEDULE

Proposed starting date: April 1, 2014.

Estimated completion: April 30, 2016 .

### WORK PROGRAM

	Complete Date: April 30, 2016.
<b>Task 1. Community Stakeholder Meeting and Workshops</b>	
1.1 Identify Stakeholders	
1.2 Hold Initial Workshop	
1.3 Hold Follow-up Workshop	
Outcome/Deliverables – Report on Stakeholder Input	Projected date: October 30, 2014
<b>Task 2. Develop new and enhance existing coastal hazard policies and adaptation strategies</b>	
2.1 Review existing coastal development and adaptation strategies	
2.2 Develop new and enhance existing coastal development and adaptation policies	
Outcome/Deliverables – A list of new and enhanced policies and adaptation strategies	Projected date: November 30, 2014
<b>Task 3. Develop draft Adaptation Plan</b>	
3.1 Develop draft Adaptation Plan	
Outcome/Deliverables – Draft Adaptation Plan	Projected date: February 28, 2015
<b>Task 4. Environmental Review of Adaptation Plan</b>	
4.1 Write draft Environmental Impact Report (EIR)	
4.2 EIR Comment Period	
4.3 Finalize Adaptation Plan	
Outcome/Deliverables - EIR	Projected date: August 30, 2015
<b>Task 5. Develop final Adaptation Plan</b>	
5.1 Incorporate findings from the EIR into the draft Adaptation Plan	

5.2 Finalize Adaptation Plan	
Outcome/Deliverables – Adaptation Plan	Projected date: September 30, 2015
<b>Task 6. Planning Commission Hearing</b>	
6.1 Present Adaptation Plan to the Planning Commission	
6.2 Incorporate Planning Commission Recommendations into Adaptation Plan	
Outcome/Deliverables – Planning Commission Resolution	Projected date: October 30, 2015
<b>Task 7. Board of Supervisors Hearing</b>	
7.1 Present Adaptation Plan to the Board of Supervisors	
7.2 Incorporate Board of Supervisors Recommendations into Adaptation Plan	
Outcome/Deliverables – Board of Supervisors Resolution and Adopted Adaptation Plan	Projected date: December 15, 2015
<b>Task 8. Develop a mapping tool</b>	
8.1 Consultant will develop mapping tool	
Outcome/Deliverables	Projected date: January 30, 2016
<b>Task 9. Develop an interactive decision support system</b>	
9.1 Consultant will develop interactive decision support system	
Outcome/Deliverables	Projected date: February 28, 2016
<b>Task 10. Seek Coastal Commission certification</b>	
10.1 Submit Coastal Hazards LCP Amendment to Coastal Commission Staff	Projected Date: April 1, 2016
10.2 Prepare and help Coastal Commission staff present Coastal Hazards LCP Amendment at Coastal Commission Hearing	
10.3 Incorporate Coastal Commission Recommendations into Coastal Hazard LCP Amendment	
10.4 Present Coastal Commission Recommendations for the Coastal Hazard LCP Amendment to the Board of Supervisors for approval	
Outcome/Deliverables – Certified Coastal Hazard LCP Amendment	Projected date: TBD

Please list (1) all significant and pertinent project benchmarks related to the project for which funds are being requested, (2) expected dates for reaching or completing those steps. These will be used in monitoring grant progress and in grant reporting under approved contracts.

**BENCHMARK SCHEDULE**

ACTIVITY	COMPLETION DATE
Community Stakeholder Workshops	October 30, 2014
Draft Adaptation Plan	February 28, 2015
Environmental Review of Adaptation Plan	August 30, 2015
Final Adaptation Plan	September 30, 2015
Planning Commission Hearing	October 30, 2015.
Board of Supervisors Hearing	December 15, 2015
Mapping Tool	January 30, 2016
Interactive decision Support System	February 28, 2016
Coastal Commission Certification	2016: Date TBD

3. **A BUDGET.** Please provide a proposed budget, including the Application Budget Information and a Budget Summary, using the provided Application Budget Form.

**APPLICATION BUDGET INFORMATION****Funding Request: \$160,000.00****Total Project Cost: \$180,000.00**

If multiple funding sources are being used, in the funding sources matrix below, list the major tasks of the proposed project and indicate the estimated cost of each, including source of funding for task. These tasks should correlate with your overall Work Program. An example follows the matrix.

**PROJECT FUNDING SOURCES**

Task Number	Task	Total Cost	Allocation of total cost among all funding sources			
			Applicant's funding	LCP Grant Funding	Other Funds (define below)	Other funds (define below)
1	Community Stakeholder Meeting and Workshops	\$10,000.00		\$10,000.00		
2	Develop new and enhance existing coastal hazard policies and adaptation strategies	\$5,000.00		\$5,000.00		
3	Develop draft Adaptation Plan	\$40,000.00	\$20,000.00	\$20,000.00		
4	Environmental Review of Adaptation Plan	\$35,000		\$35,000		
5	Develop final Adaptation Plan	\$10,000		\$10,000		

# LCP Grant Application Form FY 13-14

6	Planning Commission Hearing	\$10,000		\$10,000		
7	Board of Supervisors Hearing	\$8,000		\$8,000		
8	Develop a mapping tool	\$25,000		\$25,000		
9	Develop an interactive decision support system	\$27,000		\$27,000		
10	Seek Coastal Commission certification	\$10,000		\$10,000		
<b>TOTAL</b>		<b>\$180,000.00</b>	<b>\$20,000.00</b>	<b>\$160,000.00</b>		

## OTHER FUNDING SOURCES (NOT INCLUDING IN-KIND SERVICES)

\$ Amount	Source of funds	Status (Committed, Applied, etc)
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>

## In-kind Services: \$20,000.00

In-kind services or contributions include staff time, volunteer time and materials contributed to the project. Please describe and estimate value, and differentiate between expected in-kind contributions and contributions (work or other types of contributions) already obtained/completed.

*The Nature Conservancy (TNC) has also pledged at least \$22,000 worth of staff support and infrastructure for coastal hazard GIS modeling, the web mapper/decision support tool, and web mapping applications to support planning, outreach and education tasks. Some of the staff support and technological infrastructures is associated with Phase I of the Santa Barbara County Coastal Resiliency Project but some staff support and infrastructure for the web mapper/decision support tool, and web mapping applications are included in Task 8 and 9 of Phase II of the project.*

## BUDGET SUMMARY

### Grant Application Budget Form

Organization Name: County of Santa Barbara  
 Project Title: Coastal Hazard Adaptation and associated LCP Amendments  
 Requested Amount: \$160,000

	<b>Grant Request Budget</b>	<b>Total Project Budget (if different)</b>
<b>Personnel:</b>		
Salaries and Wages <sup>(1)</sup>	<u>\$105,360</u>	<u>\$15,000</u>
Benefits <sup>(2)</sup>	<u>\$22,625</u>	<u>\$5,000</u>
<i>Total Personnel</i>	<u></u>	<u></u>
<b>Operating Expenses</b>		
Postage/Shipping	<u>\$150</u>	<u></u>
Supplies/Materials <sup>(3)</sup>	<u>\$1,100</u>	<u></u>
Travel <sup>(4)</sup>	<u></u>	<u></u>
Indirect Costs <sup>(5)</sup>	<u>\$16,000</u>	<u></u>
Other:		
Printing	<u>\$2,250</u>	<u></u>
	<u></u>	<u></u>
<i>Total Operating Expenses</i>	<u></u>	<u></u>
<b>Total Budget</b>	<b><u>\$160,000</u></b>	<b><u>\$180,000</u></b>

### Salaries and Wages

The Coastal Hazard Adaptation Plan and associated LCP Amendments would require a total of .6 FTE. This would include 1028 hours of work on the proposed project at a billing rate of \$88 per hour. A component of the Coastal Hazard Adaptation Plan will require \$50,000 worth of consultant work for the development of the mapping tool (Task 8) and the interactive decision support system (Task 9). A consultant's rate for Task 8 and 9 is approximately \$185 per hour for approximately 270 hours worth of work.

### Supplies/Materials

Supplies/materials include a license for ArcGIS at a cost of approximately \$1100. The additional software license will run the interactive decision support system.

<sup>(1)</sup> Attach an explanation of rate(s) and hours for each position for which funds are being requested.

<sup>(2)</sup> Amount requested for benefits not to exceed 40% of amount requested for salary or wage.

<sup>(3)</sup> Include a list of the major supplies and materials and how much they cost.

<sup>(4)</sup> Travel reimbursement rates are the same as similarly situated state employees.

<sup>(5)</sup> Indirect costs include, for example, a pro rata share of rent, utilities, and salaries for certain positions indirectly supporting the proposed project but not directly staffing it. Amount requested for indirect costs should be capped at 10% of amount requested for "Total Personnel."



## **EXHIBIT A**

### **CALIFORNIA COASTAL COMMISSION LCP PLANNING GRANT PROJECT DESCRIPTION**

#### **1. PROJECT DESCRIPTION.**

County of Santa Barbara (SBCo) Planning and Development Department staff has proposed a Santa Barbara County Coastal Resiliency Project, based on the Coastal Resilience Ventura project.<sup>1</sup> The Santa Barbara County Coastal Resiliency Project comprises two phases: Phase I includes Coastal Hazard Modeling and a Vulnerability Assessment and Phase II includes the Coastal Hazard Adaptation Plan and associated Local Coastal Program (LCP) amendment. SBCo's main focus for applying to the LCP Planning Grant Program is to seek funding for resources to help SBCo staff develop an Adaptation Plan and associated LCP amendments to address the steps needed to adapt to or manage potential changes to the coastline from coastal hazards. Moreover, the funding will help further develop the coastal resiliency project interactive decision support system for the entire County including incorporated and unincorporated areas.

##### **a. Goals and objectives.**

The goal of the SBCo's LCP Planning Grant application is to update the SBCo LCP, specifically the Coastal Land Use Plan and future Community Plan efforts, to include proposed new policies and enhanced existing LCP policies to address impacts from coastal hazards. Additionally, the SBCo's Coastal Zoning Ordinance would be updated to include development and land use regulations in a proposed Coastal Hazard Overlay Zone to guide the form and intensity of new and remodeled projects to moderate coastal hazard risks. The seven objectives listed below would help complete the goal of SBCo's LCP Planning Grant application:

1. Identify partners (e.g. The Nature Conservancy, Our Coast our Future, UCSB's Geography Department, BEACON) for integration of County modeling and vulnerability results to support not only planning decisions, but outreach, public education and natural resource management (FY 2014-15);
2. Develop new and enhance existing coastal hazard policies and adaptation strategies using improved information on coastal hazards and vulnerabilities that also integrates social, ecological and economic considerations when addressing these hazards (FY 2014-15);
3. Develop an Adaptation Plan, based on the findings of the Coastal Hazard Modeling and Vulnerability Assessment, which would identify the steps to be taken to adapt to or manage potential changes to the coastline from coastal hazards (FY 2014-15).
4. Develop a mapping tool to address socio-economic and ecological vulnerability to coastal hazards and the role of ecosystems in protecting coastal communities (FY 2015-16);
5. Develop an interactive decision support system that can evaluate various management scenarios and cost implications given their specific context and identify where natural solutions and smart development can be used as alternatives to more traditional hard

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<sup>1</sup> <http://coastalresilience.org/>

engineering options to risk reduction (Green vs. Gray infrastructure approaches) (FY 2015-16);

6. Amend the SBCo LCP to incorporate the proposed new and enhance existing coastal hazard policies, adaptation strategies, and regulations (FY 2015-16); and
7. Seek certification from the Coastal Commission for the LCP amendments (FY 2015-16).

#### **b. Project details**

The Coastal Hazard Adaptation Plan would be developed based on the findings of the Coastal Hazard Vulnerability Assessment and would identify the steps to be taken to adapt to or manage potential changes to the coastline from coastal hazards. Different management scenarios such as armoring, restored wetlands, beach nourishment, and a “do nothing” approach would be described in the Plan. The Adaptation Plan would look at the effects to the socioeconomic system in an effort to reduce risks, decrease costs, and increase resilience. Cost estimates and would be calculated for different management scenarios as well as identifying economic tradeoffs of the scenarios. Lastly, the Adaptation Plan will include funding for continuing community outreach meetings and public workshops with residents, the business community and other interested parties to solicit input on the proposed new and enhanced existing LCP policies and adaptation strategies.

The associated LCP amendment would update the SBCo’s LCP, specifically the Coastal Land Use Plan and future Community Plan efforts, to include the proposed new policies and enhanced existing LCP policies to address impacts from coastal hazards. These new and enhanced existing policies would be consistent with California Coastal Commission’s Sea-Level Rise Policy Guidance, NOAA’s Coastal Zone Management Program, the State of California Sea Level Rise Guidance Document, the California Climate Adaptation Strategy, and Resolution of the California Ocean Protection Council on Sea-Level Rise. The Santa Barbara County Coastal Zoning Ordinance would be updated to include development and land use regulations in a proposed Coastal Hazard Overlay Zone to guide the form and intensity of new and remodeled projects to moderate coastal hazard risks. Lastly, the Coastal Resiliency Project would build upon the County’s Multi-Jurisdictional Hazard Mitigation Plan updated for FEMA and Cal EMA in 2011.

#### **i. Public Benefit/Significance**

Santa Barbara County includes a variety of estuary, creek mouth and blufftop communities, examples include: Isla Vista, Hope Ranch, Mesa, Montecito, Summerland, and Carpinteria. There is also critical infrastructure along the County’s coastline including: the Santa Barbara Airport; Carpinteria and Goleta water and sewage treatment plants; underground gas storage facilities in Carpinteria and the communities of Ellwood and Gaviota, the Union Pacific Railroad, U. S. Highway, and County and City roadways. The Goleta Slough with its wastewater and critical airport infrastructure is the focus of one ongoing vulnerability study funded by the Coastal Conservancy; however, the County’s coast zone contains many other economic and recreational activities as well, these include: Santa Barbara and Carpinteria

Downtown Waterfronts; Santa Barbara Harbor and Pier, and County and City Park facilities that offer recreational beaches, piers, picnic areas, coastal access parking, buildings, and restaurants.

Given the high concentrations of people and development along the south coast Santa Barbara County (County), increased coastal storm intensity and frequency, sea level rise, coastal erosion, flooding, and other related climate change impacts can have far-reaching social, economic and ecosystem consequences to the County. Both the Pacific Institute study *The Impacts of Sea-Level Rise on the California Coast* and NOAA's Sea-Level Rise Viewer shows damage within the County to shoreline infrastructure and development, bluff and beach erosion, and flooding of low-lying areas. Impacts from coastal hazards can lead to the degradation of natural habitats, specifically dune systems and wetlands. By removing the benefits that healthy ecosystems provide, people and property may be further exposed to the effects of erosion, flooding and inundation. Damage to recreational facilities, critical infrastructure, and development including homes, businesses, transportation facilities, electric utility systems and harbors can have significant associated economic effects, including costs associated with rebuilding and the loss of industry and tourism.

Funding from the grant will help SBCo staff better evaluate future coastal hazard impacts and identify new and enhance existing coastal hazard adaptation strategies using improved information from science and the Phase I modeling of multiple coastal inundation scenarios that project future changes to the shoreline, beaches, bluff erosion and coastal flooding associated with these hazards and vulnerabilities. An interactive decision support system will be further developed in Phase II as part of the Adaptation Plan. Planners and decision makers using this support system would be able to visually assess risk to infrastructure as well as social, economic and ecological conditions. Planners and decision makers could identify a suite of solutions from the database of existing and potential coastal hazard planning tools described in the Adaptation Plan that best address their risk reduction needs without compromising the benefits that nature provides. Additionally, the support system planners and decision makers would be able to evaluate how wetlands, reefs and other natural buffers can fit into shoreline defenses.

The County's coastal resiliency approach can also provide lessons learned and expertise to other regions engaged in various stages of coastal hazards adaptation planning. The data and results will be easily shared by coordinating with the Cities of Carpinteria, Santa Barbara, and Goleta as well as UCSB and other interested parties. By example, this collaboration will show other coastal communities how to utilize natural solutions and smart development to reduce risks to disaster and climate change related coastal hazard events. The project team will ensure that final products are available on the California Climate Change portal website, including the Cal-Adapt website.

## **ii. Relative Need for LCP Update/Extent of Update**

SBCo's Certified Local Coastal Program (LCP) was certified in 1981 and includes some policies that address bluff and beach erosion, geologic hazards including wave impacts from extreme weather events, salt water intrusion, and flooding; however, SLR and inundation are not currently addressed in the County's LCP. Funding from the Grant Program will help SBCo staff better evaluate future coastal hazard impacts and identify new and enhance existing coastal development and adaptation policies using improved information from science and modeling of

these hazards and vulnerabilities. These new and enhance existing coastal development and adaptation policies will integrate the social, ecological and economic considerations described above when addressing these hazards. These policies would be incorporated into SBCo's LCP by amending the Coastal Land Use Plan and Coastal Zoning Ordinance. This is especially noteworthy and timely because the Planning and Development Department is currently undertaking two community planning efforts (the Gaviota Coast Plan and the Goleta Community Plan update). Coastal Commission Staff have commented that both community plans need to include policies addressing SLR and related climate change impacts. The grant funds would be used to augment these current planning efforts to address coastal hazard issues.

Results from the coastal resiliency project will be coordinated with the Santa Barbara County's Integrated Regional Water Management Plan (IRWMP) Update, the Goleta Beach 2.0 process, the Gaviota Coast Plan (if project timelines match-up), and the Devereux Slough and Carpinteria Salt Marsh restorations.

The SBCo LCP will not need reformatting. Current planning efforts to amend the SBCo LCP include Isla Vista Master Plan and Gaviota Coast Plan, Goleta and Summerland Community Plan updates include amendments to the Coastal Zoning Ordinance, and the 2013 General Package Ordinance Amendment to the Coastal Zoning Ordinance.

### **iii. Addressing the Effects of Climate Change**

There is significant evidence that California has already felt the effects from climate change. California should continue to expect increased temperatures, sea level rise (SLR), reduced winter snowpack, altered precipitation patterns, and more frequent storm events.<sup>2</sup> The social, economic and environmental impacts of future climate change could easily overwhelm County financial and staffing resources without a plan in place to adapt to climate change. Since 2009, the SBCo Planning and Development Department staff has embarked on a Climate Action Strategy that involves three phases: Climate Action Study (completed 2009), Energy and Climate Action Plan (proposed to be completed in June 2014), and a Climate Change Adaptation Plan (CCAP) proposed to be included in the Planning and Development Department's anticipated Fiscal Year (FY) 2014-2015 Annual Work Program. The overall goal of this CCAP is to identify and plan for mitigation to potential hazards and issues from climate change impacts. Increasing the County's coastal resilience to disaster and climate change related coastal hazard events such as SLR, storm surge, and frequent flooding is a key element of the CCAP. SBCo Planning and Development Department staff have identified the need for improved scientific modeling of SLR and projected impacts to vulnerable infrastructure.

In the County, "gray" or traditional hard engineering coastal hazard adaptation strategies are often utilized in development projects. These "gray" adaptation strategies include the building of sea defenses such as sea walls, rock armoring, and groynes to hold back the ocean, reduce processes of erosion, and to capture sediment. These approaches can be effective but they can also be expensive and replace natural systems which provide additional benefits to fisheries,

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<sup>2</sup> California Emergency Management Agency and California Natural Resources Agency. *California Adaptation Planning Guide*. July 2012.

tourism revenues and recreation. SBCo Planning and Development Department staff would analyze natural systems such as dunes, coastal wetland habitats, and nearshore and offshore reefs, and their relative vulnerability to coastal hazards as well as their natural ability to protect against these threats. Coastal wetlands capture moving sediments and can reduce the speed and height of floods. Nearshore and offshore reefs act as breakwaters and help generate rock and sand to build beaches. Dune systems buffer surrounding areas by dampening the power and force of waves. By protecting dune systems, coastal wetland habitats, and reefs, SB County could utilize these natural systems as cost effective nature-based or “green” alternatives to “gray” infrastructure. These “green” coastal hazard adaptation strategies can provide effective barriers to storm events that can be intensified by sea level rise. Using “green” adaptation strategies can prevent further destruction of existing ecosystems, restore degraded environmentally sensitive habitat areas, and create new public coastal access and coastal recreational opportunities. “Green” adaptation strategies can also allow for the natural migration and realignment of coastlines to meet changes in sea level and water flows.

#### **iv. Likelihood of Success/Effectiveness**

Amendments to the LCP and Coastal Zoning Ordinance would be presented to SBCo decision makers (Planning Commission and Board of Supervisors) in public hearings, allowing for further public input. Additional steps in the LCP and Coastal Zoning Ordinance amendments would involve the Board of Supervisors adoption of the SBCo LCP Amendments and Coastal Commission certification.

SBCo Planning and Development and Coastal Commission staff currently meet bimonthly to coordinate and discuss upcoming projects within the County’s Coastal Zone. Discussions regarding the SBCo Coastal Resiliency Project will be included as topics in these bimonthly meetings.

If this grant is awarded, Planning and Development Department would include the project in the proposed Planning and Development Department 2014-15 and 2015-16 Work Programs and the Planning and Development Department’s FY 2014-15 and FY 2015-16 budgets. Planning and Development Department staff would request a 12.5% cash match of \$20,000 for this project from the general fund and to be spread over two fiscal years (FY 2014-15 and FY 2015-16). SBCo’s cash match would be used to fund staff time from the Planning and Development Department.

#### **v. Workload and Permit Streamlining**

The Coastal Hazard Adaptation Plan includes an interactive mapping application that will allow planners, decision makers, and stakeholders to analyze social, economic, and ecological conditions and their relative vulnerability to coastal hazards. This web mapping tool can simplify complex relationships through visual spatial display to convey a specific ecological or social concept, or compare different future sea level rise and storm surge condition scenarios. These maps will be helpful to illustrate the coastal habitats relative vulnerability to coastal hazards and help illustrate coastal habitat’s natural ability to protect human communities. The mapping application can help identify where marshes may have the highest potential to reduce risk to

people and property, allowing them to examine different conservation and restoration scenarios. These maps will identify the potential economic damage of future SLR and floods based on the present-day economic landscape. Adequate information on the risks of coastal hazards, the community's vulnerability to them, economic exposure, potential loss of coastal infrastructure from storms and sea level rise, and environmental conditions is important data for planners, decision makers and stakeholders to look at when making land use decisions.

The Coastal Hazard Modeling and Vulnerability Assessment (Phase I) and Adaptation Plan will result in a streamlined permit process by allowing applicants to utilize the coastal hazard model, interactive maps and development standards to develop site plans that accommodate sea level rise and associated coastal hazard impacts obviate the need for sea walls and other coastal armoring projects, consistent with the Coastal Act and coastal resource protection policies.

#### **vi. Project Integration/Leverage/Matching Funds**

The entire SBCo Coastal Resiliency Project will cost approximately \$468,000. The County of Santa Barbara is being recommended to receive funding from the California State Coastal Conservancy's Climate Ready Grant Program for completion of Phase I of the SBCo Coastal Resiliency Project in the amount of \$200,000. The Nature Conservancy (TNC) has also pledged at least \$22,000 worth of staff support and infrastructure for coastal hazard GIS modeling, the web mapper/decision support tool, and web mapping applications to support planning, outreach and education tasks. SBCo Planning and Development Department is seeking an 18% cash match of approximately \$50,000 for Phase I of the SBCo Coastal Resiliency Project. Phase I also is anticipated to include staff from the University of California, Santa Barbara and the Cities of Carpinteria, Santa Barbara, and Goleta for in-kind staff support of approximately \$4,000 for each jurisdiction, for a total of \$16,000.

To complete Phase II of the SBCo Coastal Resiliency Project, SBCo Planning and Development staff is requesting \$160,000 for this project as part of our Local Coastal Program (LCP) Planning Grant Program application. Planning and Development Department would request a 12.5% cash match of \$20,000 for this project from the SBCo General Fund.

## EXHIBIT B

### CALIFORNIA COASTAL COMMISSION LCP PLANNING GRANT WORK PROGRAM AND SCHEDULE

#### SCHEDULE

Proposed starting date: April 1, 2014.

Estimated completion: April 30, 2016 .

#### WORK PROGRAM

	Complete Date: April 30, 2016.
<b>Task 1. Community Stakeholder Meeting and Workshops</b>	
1.1 Identify Stakeholders	
1.2 Hold Initial Workshop	
1.3 Hold Follow-up Workshop	
Outcome/Deliverables – Report on Stakeholder Input	Projected date: October 30, 2014
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5.1 Incorporate findings from the EIR into the draft Adaptation Plan	
5.2 Finalize Adaptation Plan	

Outcome/Deliverables – Adaptation Plan	Projected date: September 30, 2015
<b>Task 6. Planning Commission Hearing</b>	
6.1 Present Adaptation Plan to the Planning Commission	
6.2 Incorporate Planning Commission Recommendations into Adaptation Plan	
Outcome/Deliverables – Planning Commission Resolution	Projected date: October 30, 2015
<b>Task 7. Board of Supervisors Hearing</b>	
7.1 Present Adaptation Plan to the Board of Supervisors	
7.2 Incorporate Board of Supervisors Recommendations into Adaptation Plan	
Outcome/Deliverables – Board of Supervisors Resolution and Adopted Adaptation Plan	Projected date: December 15, 2015
<b>Task 8. Develop a mapping tool</b>	
8.1 Consultant will develop mapping tool	
Outcome/Deliverables	Projected date: January 30, 2016
<b>Task 9. Develop an interactive decision support system</b>	
9.1 Consultant will develop interactive decision support system	
Outcome/Deliverables	Projected date: February 28, 2016
<b>Task 10. Seek Coastal Commission certification</b>	
10.1 Submit Coastal Hazards LCP Amendment to Coastal Commission Staff	Projected Date: April 1, 2016
10.2 Prepare and help Coastal Commission staff present Coastal Hazards LCP Amendment at Coastal Commission Hearing	
10.3 Incorporate Coastal Commission Recommendations into Coastal Hazard LCP Amendment	
10.4 Present Coastal Commission Recommendations for the Coastal Hazard LCP Amendment to the Board of Supervisors for approval	
Outcome/Deliverables – Certified Coastal Hazard LCP Amendment	Projected date: TBD



**BENCHMARK SCHEDULE**

ACTIVITY	COMPLETION DATE
Community Stakeholder Workshops	October 30, 2014
Draft Adaptation Plan	February 28, 2015
Environmental Review of Adaptation Plan	August 30, 2015
Final Adaptation Plan	September 30, 2015
Planning Commission Hearing	October 30, 2015.
Board of Supervisors Hearing	December 15, 2015
Mapping Tool	January 30, 2016
Interactive decision Support System	February 28, 2016
Coastal Commission Certification	2016: Date TBD

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## EXHIBIT C

### CALIFORNIA COASTAL COMMISSION LCP PLANNING GRANT BUDGET

#### APPLICATION BUDGET INFORMATION

**Funding Request: \$160,000.00**

**Total Project Cost: \$180,000.00**

#### PROJECT FUNDING SOURCES

Task Number	Task	Total Cost	Allocation of total cost among all funding sources			
			Applicant's funding	LCP Grant Funding	Other Funds (define below)	Other funds (define below)
1	Community Stakeholder Meeting and Workshops	\$10,000.00		\$10,000.00		
2	Develop new and enhance existing coastal hazard policies and adaptation strategies	\$5,000.00		\$5,000.00		
3	Develop draft Adaptation Plan	\$40,000.00	\$20,000.00	\$20,000.00		
4	Environmental Review of Adaptation Plan	\$35,000		\$35,000		
5	Develop final Adaptation Plan	\$10,000		\$10,000		
6	Planning Commission Hearing	\$10,000		\$10,000		
7	Board of Supervisors Hearing	\$8,000		\$8,000		
8	Develop a mapping tool	\$25,000		\$25,000		
9	Develop an interactive decision support system	\$27,000		\$27,000		
10	Seek Coastal Commission certification	\$10,000		\$10,000		
<b>TOTAL</b>		<b>\$180,000.00</b>	<b>\$20,000.00</b>	<b>\$160,000.00</b>		

**OTHER FUNDING SOURCES (NOT INCLUDING IN-KIND SERVICES)**

\$ Amount	Source of funds	Status (Committed, Applied, etc)
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>
		<a href="#">Click here to enter a date.</a>

**In-kind Services: \$20,000.00**

In-kind services or contributions include staff time, volunteer time and materials contributed to the project. Please describe and estimate value, and differentiate between expected in-kind contributions and contributions (work or other types of contributions) already obtained/completed.

*The Nature Conservancy (TNC) has also pledged at least \$22,000 worth of staff support and infrastructure for coastal hazard GIS modeling, the web mapper/decision support tool, and web mapping applications to support planning, outreach and education tasks. Some of the staff support and technological infrastructures is associated with Phase I of the Santa Barbara County Coastal Resiliency Project but some staff support and infrastructure for the web mapper/decision support too, and web mapping applications are included in Task 8 and 9 of Phase II of the project.*

**BUDGET SUMMARY****Grant Application Budget Form**

Organization Name: County of Santa Barbara

Project Title: Coastal Hazard Adaptation and associated LCP Amendments

Requested Amount: \$160,000

	Grant Request Budget	Total Project Budget (if different)
<b>Personnel:</b>		
Salaries and Wages <sup>(1)</sup>	<u>\$105,360</u>	<u>\$15,000</u>
Benefits <sup>(2)</sup>	<u>\$22,625</u>	<u>\$5,000</u>
<i>Total Personnel</i>	<u></u>	<u></u>
<b>Operating Expenses</b>		
	<u></u>	<u></u>

<sup>(1)</sup> Attach an explanation of rate(s) and hours for each position for which funds are being requested.

<sup>(2)</sup> Amount requested for benefits not to exceed 40% of amount requested for salary or wage.

<sup>(3)</sup> Include a list of the major supplies and materials and how much they cost.

Postage/Shipping	<u>\$150</u>	<u></u>
Supplies/Materials <sup>(3)</sup>	<u>\$1,100</u>	<u></u>
Travel <sup>(4)</sup>	<u></u>	<u></u>
Indirect Costs <sup>(5)</sup>	<u>\$16,000</u>	<u></u>
Other:		
Printing <u></u>	<u>\$2,250</u>	<u></u>
<u></u>	<u></u>	<u></u>
<i>Total Operating Expenses</i>	<u></u>	<u></u>
<b>Total Budget</b>	<b><u>\$160,000</u></b>	<b><u>\$180,000</u></b>

### **Salaries and Wages**

The Coastal Hazard Adaptation Plan and associated LCP Amendments would require a total of .6 FTE. This would include 1028 hours of work on the proposed project at a billing rate of \$88 per hour. A component of the Coastal Hazard Adaptation Plan will require \$50,000 worth of consultant work for the development of the mapping tool (Task 8) and the interactive decision support system (Task 9). A consultant's rate for Task 8 and 9 is approximately \$185 per hour for approximately 270 hours worth of work.

### **Supplies/Materials**

Supplies/materials include a license for ArcGIS at a cost of approximately \$1100. The additional software license will run the interactive decision support system.

<sup>(4)</sup> Travel reimbursement rates are the same as similarly situated state employees.

<sup>(5)</sup> Indirect costs include, for example, a pro rata share of rent, utilities, and salaries for certain positions indirectly supporting the proposed project but not directly staffing it. Amount requested for indirect costs should be capped at 10% of amount requested for "Total Personnel."

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**ATTACHMENT A**

**Board of Supervisors Resolution**

**RESOLUTION OF THE BOARD OF SUPERVISORS  
COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA**

IN THE MATTER OF AUTHORIZING THE )  
DIRECTOR OF PLANNING AND )  
DEVELOPMENT TO EXECUTE ALL )  
NECESSARY CONTRACTS AND )  
AGREEMENTS FOR GRANT FUNDING )  
FROM THE LOCAL COASTAL PROGRAM )  
PLANNING GRANT PROGRAM AND )  
EXECUTE PROJECT RELATED )  
AGREEMENTS FOR A COASTAL HAZARD )  
ADAPTATION PLAN AND LOCAL COASTAL )  
PROGRAM AMENDMENT )

RESOLUTION NO. \_\_\_\_\_

**WHEREAS**, the Budget Act of 2013 provides an appropriation of \$1 million for Coastal Commission grants in FY 13-14 to local governments to support Local Coastal Program planning; and

**WHEREAS**, the California Coastal Commission, under the authority of the California Coastal Act, may provide financial assistance to support coastal planning and has approved a competitive grant program to provide such financial assistance for Local Coastal Program planning; and

**WHEREAS**, the goal of the grant program is to develop new or updated Local Coastal Program in conformance with the California Coastal Act and to reflect current circumstances and new scientific information, including new understandings and concern for the effects of climate change; and

**WHEREAS**, grant proposals submitted under this grant program must complete land use plan and/or zoning work to either achieve submittal for certification of a Local Coastal Program or an Area of Deferred Certification or of a Local Coastal Program Amendment to significantly update a certified Local Coastal Program or Local Coastal Program segments, including with special emphasis on effects of climate change and sea-level rise; and

**WHEREAS**, the County of Santa Barbara, has a certified Local Coastal Program; and

**WHEREAS**, the County of Santa Barbara, recognizing the problems and issues associated with climate change, desires to pursue a project that would result in the completion and submittal for certification by the California Coastal Commission of an Amendment to update the Local Coastal Program in part; and

**WHEREAS**, a Coastal Hazard Adaptation Plan and Local Coastal Program Amendment would further policies in the Santa Barbara County Local Coastal Program that address sea-level rise and coastal hazards; and

**WHEREAS**, the County of Santa Barbara commits to and agrees to fully support a planning effort intended to update a certified Local Coastal Program pursuant to the provisions of the California Coastal Act, with full public participation and coordination with the Coastal Commission staff.



**NOW, THEREFORE, IT IS HEREBY RESOLVED**, that the County of Santa Barbara Board of Supervisors:

1. Approves the submittal of the grant application package to the California Coastal Commission to provide financial and planning assistance, under authority of the California Coastal Act, in the amount of \$160,000 to fund the project more particularly described in the grant application package.
2. Authorizes the Director of the Planning and Development Department, to execute, in the name of the County of Santa Barbara, all necessary applications, contracts and agreements and amendments thereto for the completion of the grant application package for the aforementioned project.

**PASSED, APPROVED, AND ADOPTED** this \_\_\_\_\_ day of \_\_\_\_\_, 2013 by the following vote:

AYES:

NOES:

ABSENT:

ABSTENTIONS:

ATTEST:

ACCEPTED AND AGREED  
COUNTY OF SANTA BARBARA

By: \_\_\_\_\_  
SALUD CARBAJAL, Chair  
Board of Supervisors, County of Santa Barbara

APPROVED AS TO FORM:  
ROBERT W. GEIS, CPA  
COUNTY AUDITOR-CONTROLLER

By:   
Deputy Auditor-Controller

TERRI MAUS-NISICH, INTERIM COUNTY  
EXECUTIVE OFFICER  
CLERK OF THE BOARD

By: \_\_\_\_\_  
Deputy Clerk

APPROVED AS TO FORM:  
DENNIS A. MARSHALL  
COUNTY COUNSEL

By:   
Deputy County Counsel

**ATTACHMENT B**

**LCP Planning Grant Application Map**



**ATTACHMENT C**

**LCP Planning Grant Application Photos**

### Highway 101 Near El Captain State Beach



*El Capitan Clouds* by Bill Dewey, [billdeweyphoto.com](http://billdeweyphoto.com).

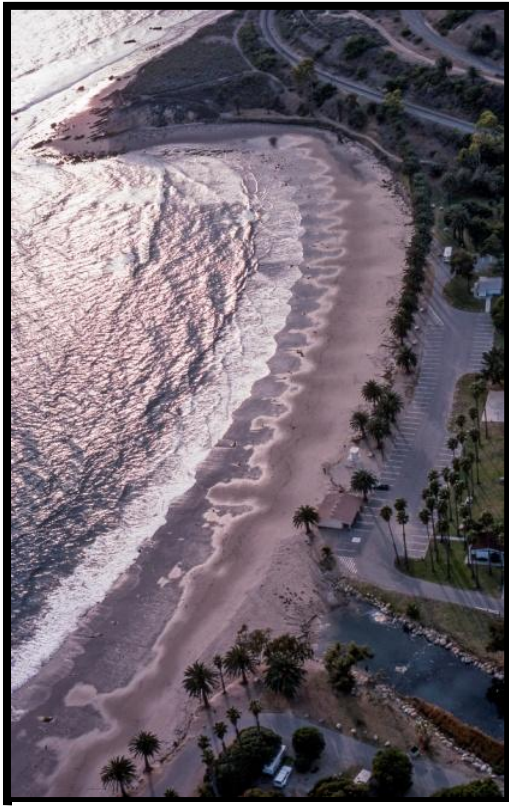
### Gaviota Coast



*Gaviota* by Bill Dewey, [billdeweyphoto.com](http://billdeweyphoto.com).

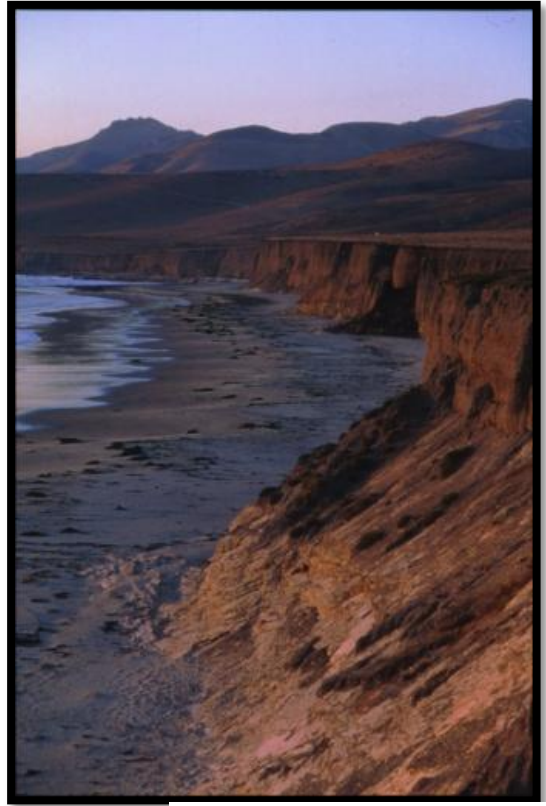


**Refugio State Beach**



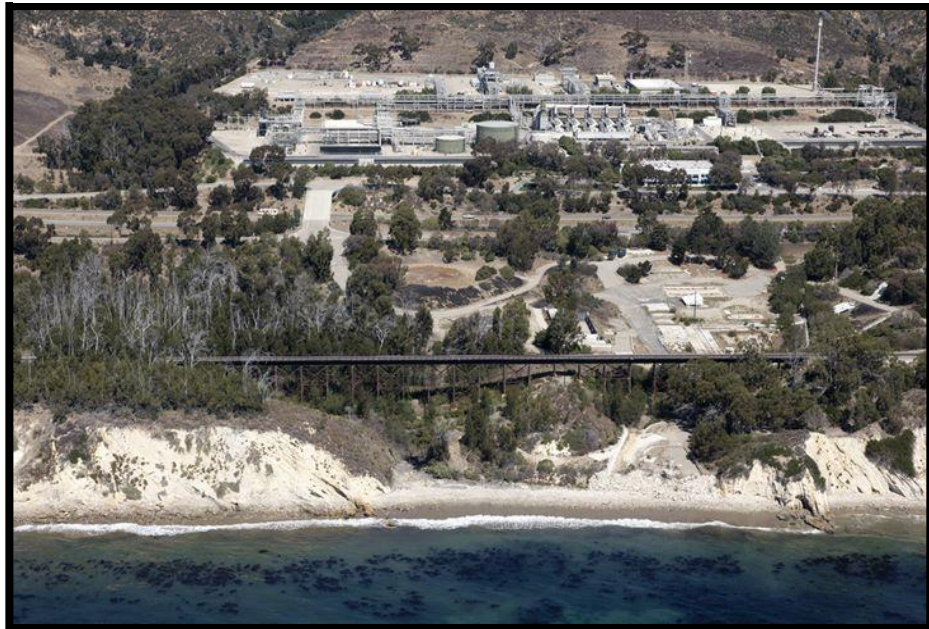
*Refugio State Beach* by Bill Dewey, billdeweyphoto.com.

**Bluffs on the Gaviota Coast**



*Bluffs* by Bill Dewey, billdeweyphoto.com.

**Railroad Trestles at Gaviota Marine Terminal**



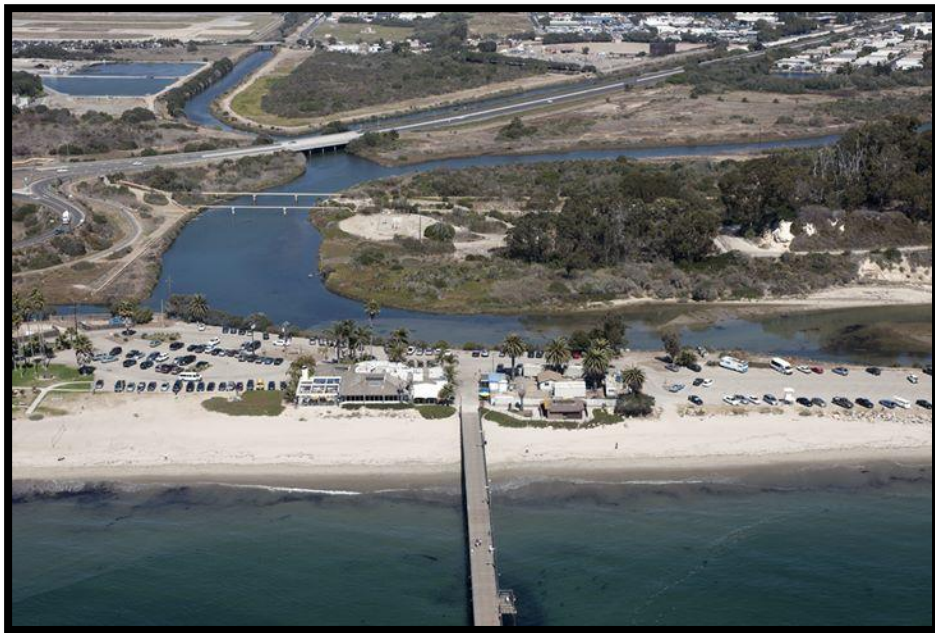
Photograph by Santa Barbara County Staff.

### **Carpinteria Salt Marsh**



Photograph by Bruce Perry, Department of Geological Sciences, CSU Long Beach.

### **Goleta Beach and Goleta Slough**



Source: California Coastal Records Project



### **Isla Vista Bluff Erosion**



Photograph by Santa Barbara County Staff.

### **Santa Barbara's Mesa Neighborhood**



Source: California Coastal Records Project